

What is claimed is :

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1. A liquid crystal display comprising:
conversion means that convert a luminance signal and two
color-difference signals of an input video signal each into
digital signals in correspondence with the respective signals,
and

setting means that sets magnitudes of reference voltage
ranges to determine upper limit voltages and lower limit voltages
of the digital signals
to be identical to each of these conversion means.

2. A liquid crystal display according to Claim 1, wherein
the setting means sets a minimum value of the reference voltage
ranges to a minimum value of the input video signal, and varies
an intermediate value between the minimum value of the reference
voltage ranges and a maximum value thereof, in accordance with
a variation of the maximum value of the reference voltage ranges.